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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/565,274	01/20/2006	Fumio Okuda	28955.4041	7641		
27890 STEPTOE & JO	7590 02/14/2001 OHNSON LLP	EXAM	EXAMINER			
1330 CONNEC	CTICUT AVENUE, N.V	NGUYEN,	NGUYEN, KHIEM D			
WASHINGTO	N, DC 20036		ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/565,274 OKUDA ET AL. Office Action Summary Examiner Art Unit KHIEM D. NGUYEN 2823 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 November 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage

Information Disclosure-Statement(s) (PTO/SE/03)
 Paper No(s)/Mail Date 11/27/07 and 01/30/08.
U.S. Patent and Tracement Office
PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

5 Notice of Informal Patent Application

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DETAILED ACTION

Response to Applicants' Amendment and Argument

Applicants' arguments, see page 3, lines 7-18, filed on November 27th, 2007, with
respect to the rejection(s) of claim(s) 1-8 under 35 U.S.C. 102(e) have been fully
considered and are persuasive. Therefore, the rejection in Paper No. 20070619
has been withdrawn. However, upon further consideration, a new ground(s) of
rejection is made in view of Ma et al. (U.S. Patent 6,687,266). Claims 1-8 are
pending in the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ma et al. (U.S. Patent 6,687,266).

In re claim 1, <u>Ma et al.</u> disclose a metal complex compound having a partial structure represented by a following general formula (I):

wherein R¹ to R⁵ each independently represents a hydrogen atom, a cyano group, a nitro group, a halogen atom, a substituted or unsubstituted alkyl group

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having 1 to 20 carbon atoms, a substituted or unsubstituted amino group, a substituted or unsubstituted alkoxyl group having 1 to 20 carbon atoms, a substituted or unsubstituted alkylsilyl group having 1 to 20 carbon atoms, a substituted or unsubstituted acyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aromatic group having 1 to 30 carbon atoms (see col. 11, line 9 to col. 12, line 65 and Table 1 in cols. 15-18); and

TΑ		

Cmp	М	R_z	R_3	R_{a}	R,	R*	Y	R'2	R's	Х	C.I.E (McCl ₂)	PL (nm
1	Ŀ	н	Н	H	Н	CH ₃	С	H	H	SCAC	6.32, 6.60	\$09
2	Ēź	F	H	F	H	CH ₃	C	H	H	pic	0.25, 0.48	475
3	Ŀ	H	Н	OCH ₅	H	CH ₃	C	H	H	2223	0.23, 0.53	488
4	Ŀ	H	H	CF ₃	Ħ	CH ₃	C	H	H	gic	0.34, 0.59	510
5	Īź	H	CF ₃	H	H	H	C	H	H	Dic	0.28, 0.55	490
ć	Ŀ	H	Н	H	H	C ₆ H ₅	C	H	CF ₃	scac	0.37, 0.60	522
7	Ŀ	H	Н	OCH ₅	H	CH ₃	C	H	H	tris	0.25, 0.54	488
8	Ŀ	H	H	N(CH ₄)2	H	C ₆ H ₅	C	H	H	2020	0.35, 0.60	519
9	Ŀ	H	H	CF ₃	H	C ₅ H ₅	N	H	H	2020	0.54, 0.45	584
10	Ir	H	H	H	H	pOCH ₃ Ph	C	H	H	SCRC	0.36, 6.60	515
11	Ŀ	C	Cl	H	Ci	C4H10	C	H	OCH2	2020	6.50, 6.49	580
22	Ŀ	OCH ₃	н	OCH ₃	H	CH ₂	C	H	H	2222	0.33, 0.53	494
13	Ιź	F	F	F	H	CH ₃	С	H	H	8080	0.28, 0.55	490
14	Ēź.	P	F	F	H	CH ₃	C	H	H	pic	6.28, 6.55	488
35	Ē,	C	Cí	H	C	CH _x	C	H	H	5080	€ 26, €.47	470
16	Ŀ	H	CF,	F	Н	CHx	C	H	H	SCRC	0.27, 6.53	485
17	Ē	H	CF,	F	H	CH ₂	C	H	H	pic	0.24, 0.46	474
18	Ŀ	H	F	OCH,	Н	CH ₃	C	H	H	RCED	6.29, 0.52	488
19	Ir	Н		piepe ring	Н	CH3	č	H	н	acas	0.35, 0.54	522

TABLE 1-continued

Cmp	M	R_2	\mathbb{R}_3	R.	R_5	R-	Y	R_2	\mathbb{R}_2	X	C.LE (MeCl ₂)	PL (nm)
20	Ir	H	CF,	н	CF,	CH,	Ç	H	H	8080	0.30, 0.56	490
23	Ir	H	CF,	H	CF ₃	CH,	Ċ	H	H	pic	0.30, 0.56	488
22	Ir	H	Ħ	OCF ₃	H	CH ₃	C	H	H	acac	0.32, 0.58	500
23	ſr	H	H	OCF ₃	H	CH ₂	C	H	H	pic	0.27, 0.54	485
24	Ir	CF.	Ħ	CF ₃	H	CH.	C	H	H	8020	0.55, 0.45	580
25	Ir	F	F	F	F	CH.	C	H	H	5C8C	0.32, 0.58	496
26	P:	H	H	H	H	CH.	C	H	H	ECEC	0.31, 0.56	486
27	Pt	F	H	F	H	CH ₄	C	H	H	ECAC	0.28, 0.52	479
28	Ŀ	H	Ħ	H	H	CH,CH,-R	Ċ	CH-CH,-R*	H	SCAC	0.33, 0.60	508

 $a\ couple\ of\ R^1\ and\ R^2, a\ couple\ of\ R^2\ and\ R^3, a\ couple\ of\ R^3\ and\ R^4\ and\ a$ $couple\ of\ R^4\ and\ R^5\ may\ bond\ each\ other\ to\ form\ a\ ring\ structure\ (see\ col.\ 11,$

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lines 33-43); $\bf p$ and $\bf q$ each independently represents an integer of 0 to 3; $\bf p+\bf q$ being 2 or 3; further, when $\bf p$ is an integer of 2 or greater, plural of $\bf R^3$ may bond each other to form a ring structure; when $\bf q$ is an integer of 2 or greater, plural of $\bf R^5$ may bond each other to form a ring structure (see Table 1 in cols. 15-18); and $\bf M$ represents metal atom selected from iridium (Ir) atom, rhodium (Rh) atom, platinum (Pt) atom or palladium (Pd) atom (see col. 9, lines 39-46 and Table 1 in cols. 15-18).

In re claim 2, as applied to claim 1 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein the metal complex compound is a material for an light emitting element (see col. 3, lines 17-30).

In re claim 3, as applied to claim 1 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein said partial structure is expressed by any one of following general formulae (i) to (vii):

wherein R^4 represents the same as the above description (see col. 9, lines 39-62).

In re claim 4, as applied to claim 1 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein said partial structure is expressed by any one of following general formulae (i') to (vii'):

wherein R^4 represents the same as the above description (see col. 9, lines 39-62).

In re claim 5, as applied to claim 1 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein the metal complex compound is expressed by any one of following general formulae 1 to 7 and 1' to 7':

20
$$\left(r\right)$$
 $\left(r\right)$ \left

wherein T⁵ to T⁹ each independently represents a hydrogen atom, a cyano group, a nitro group, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a substituted or unsubstituted amino group, a substituted or unsubstituted alkoxyl group having 1 to 20 carbon atoms, a substituted or unsubstituted alkylsilyl group having 1 to 20 carbon atoms, a substituted or unsubstituted acyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aromatic group having 1 to 30 carbon atoms; and a couple of T⁵ and T⁶, a couple of T⁶ and T⁷, a couple of T⁷ and T⁸ and a couple of T⁸ and the couple of T⁸ and the couple of T⁸ and T⁹ may bond each other to form a ring structure; M represents any one metal atom selected from iridium (Ir) atom, rhodium (Rh) atom, platinum (Pt) atom or palladium (Pd) atom; and L¹ and L² each independently represents any one structure expressed by following structures:

n represents an integer of 0 to 2, and m represents an integer of 0 or 1. G represents any one structure expressed by following structures:

wherein a dotted line "--" represents a covalent bond with the above M; and T¹ to T⁴ in Ph and OL each independently represents a cyano group, a nitro group, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 20 carbon atoms, a substituted or unsubstituted alkylsilyl group having 1 to 20 carbon atoms, a substituted or unsubstituted acyl group having 1 to 20 carbon atoms, a substituted or unsubstituted acyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aromatic group having 1 to 30 carbon atoms (see col. 9, line 19 to col. 11, line 53 and Table 1 in cols. 15-18).

In re claim 6, as applied to claim 1 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein an organic electroluminescence device which comprises at least one organic thin film layer 155-120 sandwiched between a pair of electrode consisting of an anode 120 and a cathode 160, wherein the organic thin film layer 155-120 comprises the metal complex

compound according to claim 1, which emits light by applying an electric voltage between the pair of electrode 120, 150 (see col. 4, lines 35-44 and FIG. 1).

In re claim 7, as applied to claim 6 above, Ma et al, disclose all claimed limitations including the limitation wherein said light emitting layer 155-120 comprises said metal complex compound (see col. 4, lines 35-44 and col. 9, lines 19-46).

In re claim 8, as applied to claim 6 above, <u>Ma et al.</u> disclose all claimed limitations including the limitation wherein said organic thin film layer 155-120 comprising the metal complex compound is formed by coating process (see col. 7, line 65 to col. 8, line 18).

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHIEM D. NGUYEN whose telephone number is (571)272-1865. The examiner can normally be reached on Monday-Friday (8:30 AM - 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brook Kebede/ Primary Examiner, Art Unit 2823